

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510256

Luminaire Tested: **VERD-M-CA4-240-722-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-722-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1090mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24511 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

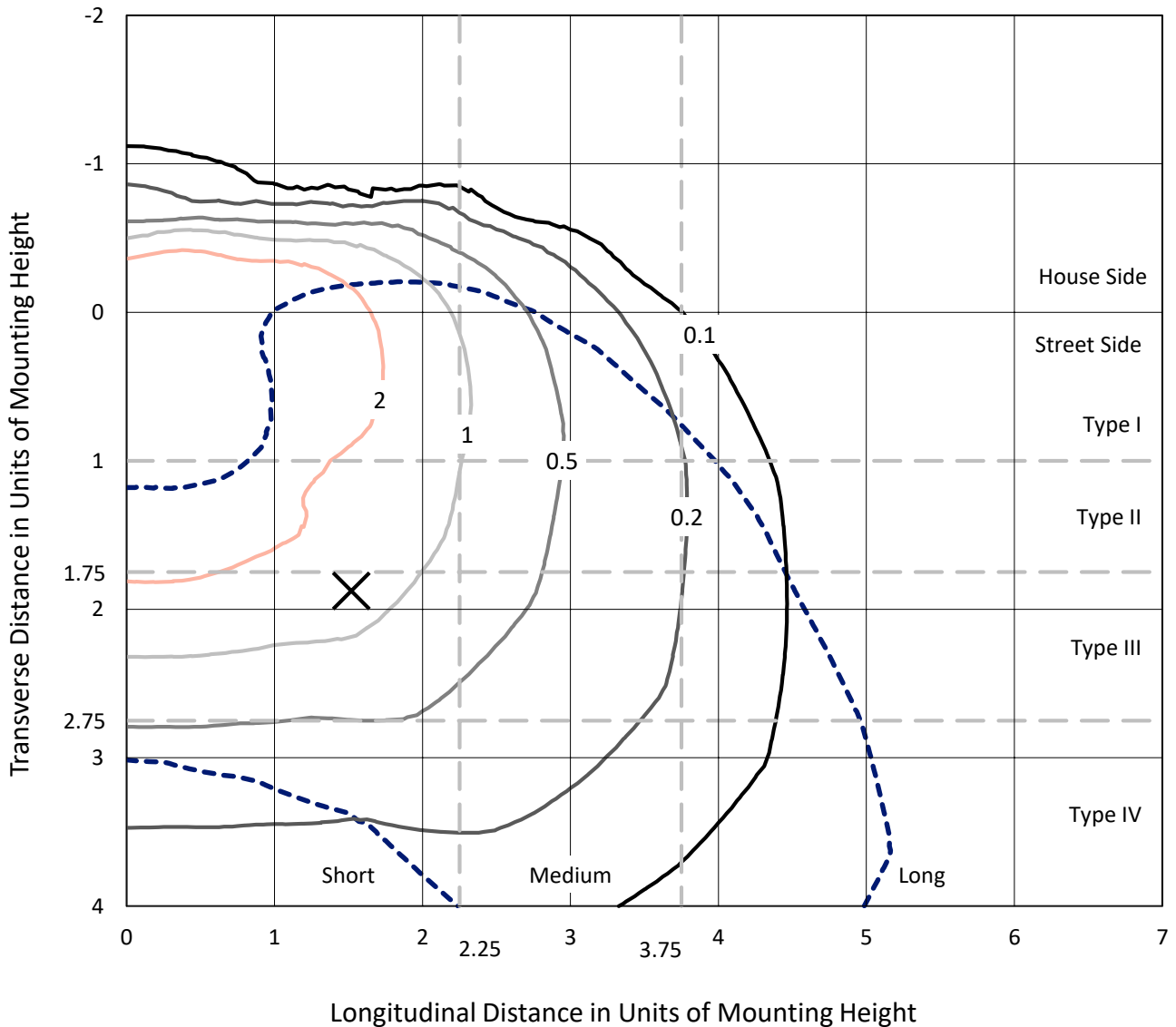
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

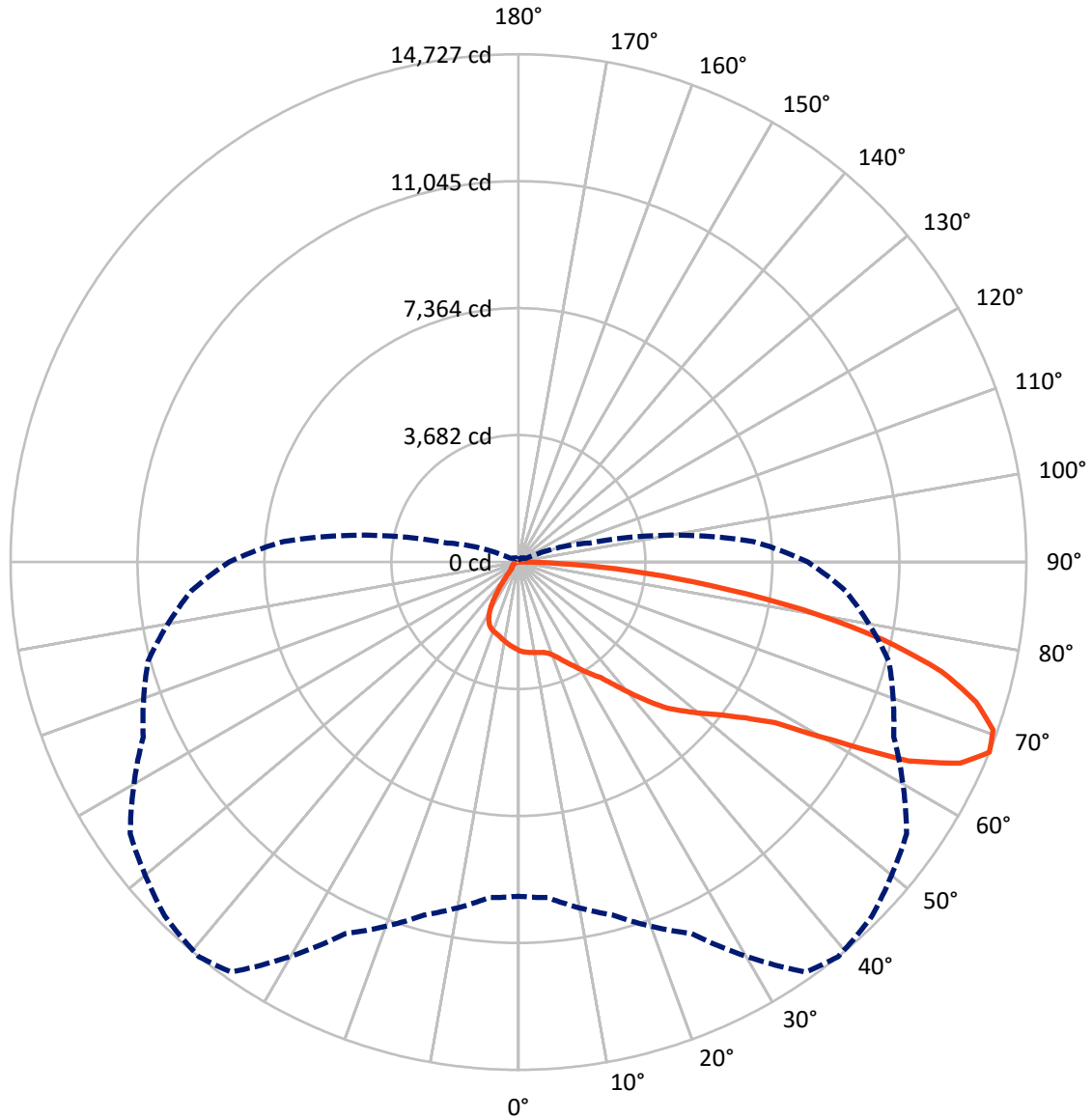
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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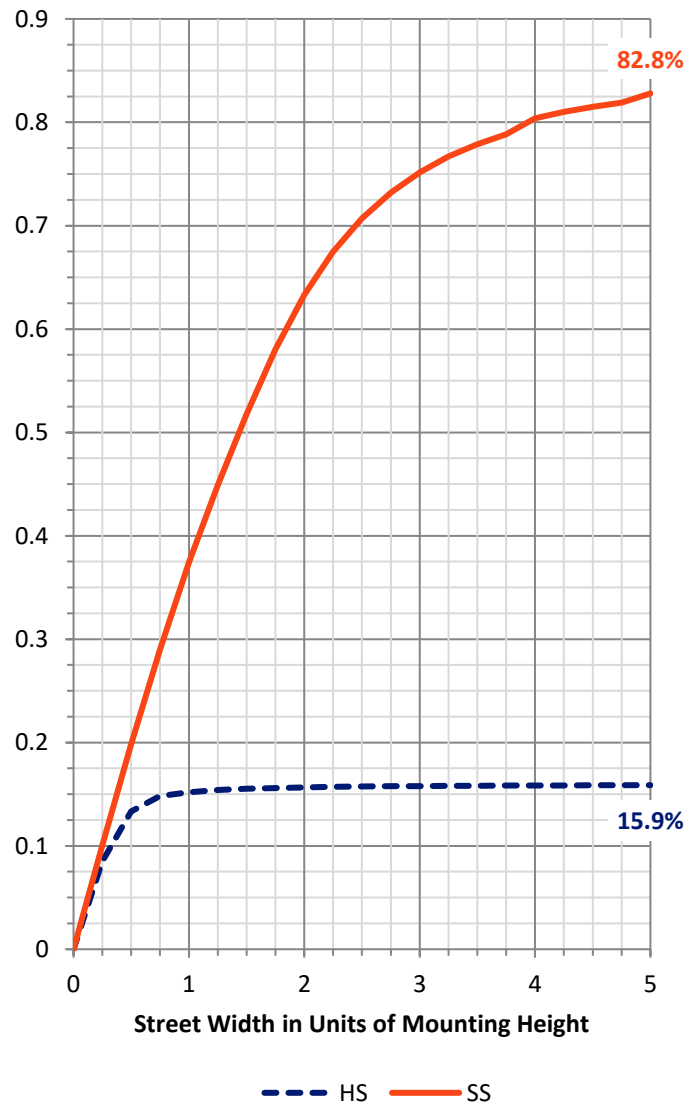
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3935.8	0.0	3935.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	20575.1	0.0	20575.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	24511.0	0.0	24511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.0
10°-20°	721.2	2.9
20°-30°	1277.7	5.2
30°-40°	2046.4	8.3
40°-50°	3282.8	13.4
50°-60°	4798.6	19.6
60°-70°	6394.3	26.1
70°-80°	4798.4	19.6
80°-90°	949.4	3.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24511.0	100.0
0°-180°	24511.0	100.0



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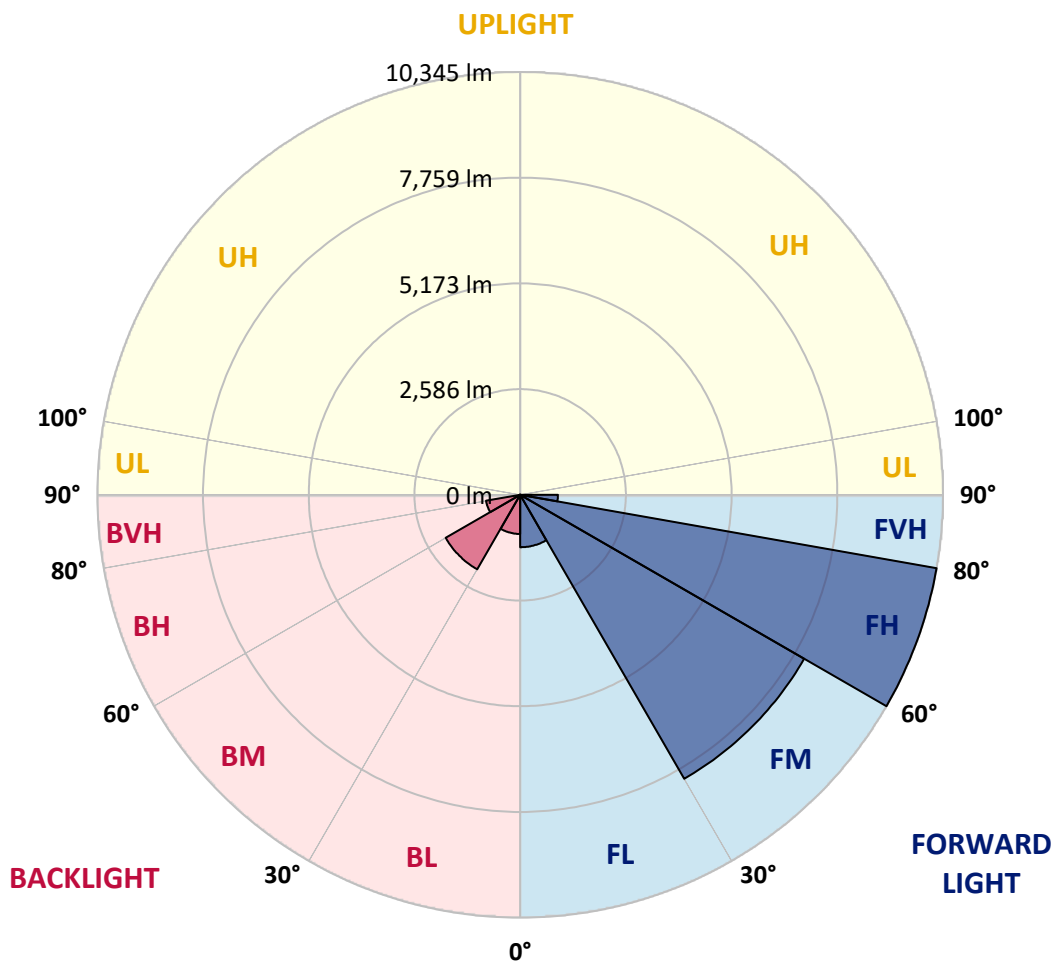
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1282.7	5.2			
FM	(30°-60°)	8022.7	32.7			
FH	(60°-80°)	10345.3	42.2			G4/12000
FVH	(80°-90°)	924.5	3.8			G5
BL	(0°-30°)	958.4	3.9	B2/1000		
BM	(30°-60°)	2105.1	8.6	B2/2500		
BH	(60°-80°)	847.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	24.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6
2.5°	2569.0	2603.5	2603.5	2593.7	2599.8	2604.7	2567.8	2577.6	2574.0	2572.7	2580.1
5°	2588.7	2626.9	2624.4	2612.1	2617.1	2626.9	2592.4	2607.2	2602.3	2590.0	2592.4
7.5°	2588.7	2620.8	2628.1	2614.6	2638.0	2650.3	2613.4	2626.9	2633.1	2624.4	2615.8
10°	2578.9	2607.2	2617.1	2614.6	2645.4	2665.1	2629.4	2667.6	2672.5	2672.5	2658.9
12.5°	2575.2	2607.2	2620.8	2631.8	2667.6	2688.5	2667.6	2704.5	2729.1	2727.9	2719.3
15°	2577.6	2613.4	2634.3	2652.8	2691.0	2716.8	2708.2	2764.8	2794.4	2803.0	2803.0
17.5°	2639.2	2682.3	2692.2	2711.9	2737.7	2777.2	2766.1	2838.7	2885.5	2900.3	2921.3
20°	2811.6	2844.9	2857.2	2847.4	2858.4	2883.1	2860.9	2931.1	3001.3	3040.7	3075.2
22.5°	3032.1	3056.7	3045.6	3035.8	3029.6	3035.8	3008.7	3055.5	3134.3	3191.0	3250.1
25°	3199.6	3253.8	3245.2	3218.1	3209.4	3216.8	3182.3	3240.2	3312.9	3372.0	3460.7
27.5°	3402.8	3436.0	3412.6	3402.8	3408.9	3407.7	3386.8	3442.2	3508.7	3582.6	3713.1
30°	3623.2	3651.6	3628.2	3618.3	3629.4	3636.8	3613.4	3710.7	3780.9	3860.9	4029.7
32.5°	3985.3	4053.1	3989.0	3860.9	3863.4	3874.5	3876.9	4007.5	4135.6	4198.4	4421.3
35°	4501.3	4555.5	4470.5	4315.4	4122.0	4114.6	4134.3	4328.9	4586.3	4872.0	5133.1
37.5°	4982.9	5061.7	4985.3	4804.3	4569.1	4512.4	4410.2	4641.7	5046.9	5661.5	5986.6
40°	5560.5	5619.6	5468.1	5310.5	5075.2	4995.2	4831.4	4979.2	5534.6	6485.4	6709.5
42.5°	6024.8	6060.5	5934.9	5769.8	5565.4	5505.1	5336.3	5349.9	6055.6	7207.1	7351.2
45°	6454.6	6492.8	6389.3	6248.9	6119.6	6046.9	5923.8	5990.3	6666.4	7968.2	7880.7
47.5°	6780.9	6819.1	6736.6	6636.9	6502.6	6453.4	6455.8	6694.7	7414.0	8576.6	8356.1
50°	7315.4	7300.7	7085.1	6976.8	6872.1	6897.9	6925.0	7265.0	8167.7	9098.7	8795.8
52.5°	8247.7	8175.1	7730.5	7447.2	7317.9	7362.2	7406.6	7858.6	9023.6	9575.4	9133.2
55°	9301.9	9228.1	8850.0	8244.0	7901.7	7973.1	7934.9	8446.0	9742.8	10033.5	9411.6
57.5°	10085.2	10207.1	10063.0	9733.0	8875.8	8782.2	8697.3	9039.6	10324.1	10491.6	9678.8
60°	10766.3	10936.2	11193.6	11103.7	10739.2	10495.3	9715.7	9733.0	10883.3	10809.4	9784.7
62.5°	11431.3	11531.1	11972.0	12069.3	12521.2	12696.1	11904.2	10629.6	11423.9	11029.8	9856.1
65°	10766.3	10894.3	11661.6	12369.8	13830.4	14064.4	13786.0	12252.8	11821.7	11160.4	9773.6
67.5°	9691.1	9768.7	10597.5	11885.7	14515.1	14727.0	14510.2	13742.9	12007.7	11121.0	9517.5
70°	8285.9	8407.8	9221.9	10948.5	14490.5	14603.8	14415.4	13922.7	11937.5	10894.3	8870.9
72.5°	6852.4	6921.3	7611.0	9334.0	13782.3	13877.2	13777.4	13646.9	11701.0	10262.6	7628.3
75°	5150.4	5165.1	5872.1	7370.9	12186.2	12681.3	12803.3	13171.5	10795.8	8797.0	5641.8
77.5°	3453.3	3599.8	4278.4	5633.1	10003.9	10795.8	11373.4	11641.9	9019.9	6565.4	3000.1
80°	1853.5	1890.4	2622.0	3997.6	7602.4	8359.8	8907.8	8912.8	6308.0	3252.5	670.0
82.5°	858.4	822.7	1320.2	2529.6	5266.1	5603.6	5970.6	5001.4	2525.9	555.4	171.2
85°	380.6	401.5	597.3	1232.8	2922.5	3261.2	3214.4	2214.3	443.4	150.2	104.7
87.5°	141.6	149.0	231.5	497.5	1043.1	1138.0	1023.4	426.1	57.9	53.0	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6	2566.6
2.5°	2571.5	2571.5	2569.0	2535.8	2528.4	2512.4	2498.8	2508.7	2497.6	2505.0	2497.6
5°	2582.6	2576.4	2561.6	2522.2	2503.8	2468.0	2440.9	2447.1	2432.3	2432.3	2431.1
7.5°	2608.4	2596.1	2570.3	2507.4	2473.0	2421.2	2379.4	2365.8	2351.0	2333.8	2331.3
10°	2650.3	2633.1	2598.6	2512.4	2445.9	2376.9	2304.2	2275.9	2239.0	2211.9	2206.9
12.5°	2708.2	2682.3	2635.5	2530.8	2443.4	2333.8	2236.5	2181.1	2136.8	2097.3	2088.7
15°	2791.9	2766.1	2710.7	2567.8	2444.6	2293.2	2165.1	2072.7	1996.4	1959.4	1960.6
17.5°	2913.9	2895.4	2810.4	2645.4	2468.0	2272.2	2106.0	1959.4	1841.2	1779.6	1771.0
20°	3070.3	3058.0	2954.5	2747.6	2522.2	2275.9	2041.9	1838.7	1665.1	1530.8	1501.3
22.5°	3252.5	3234.1	3107.2	2836.3	2564.1	2266.1	1971.7	1705.7	1444.6	1269.7	1235.3
25°	3455.7	3445.9	3247.6	2913.9	2569.0	2224.2	1870.7	1533.3	1205.7	1018.5	988.9
27.5°	3715.6	3657.7	3374.5	2955.7	2557.9	2141.7	1726.6	1296.8	958.2	828.8	796.8
30°	4000.1	3883.1	3497.6	2987.8	2503.8	2009.9	1521.0	1023.4	713.1	598.5	582.5
32.5°	4315.4	4140.5	3613.4	2985.3	2407.7	1806.7	1253.7	710.6	481.5	434.7	418.7
35°	4885.6	4588.8	3752.6	2944.7	2246.4	1565.3	885.5	463.1	357.2	328.8	325.1
37.5°	5677.5	5173.8	3939.7	2867.1	2038.2	1284.5	577.6	316.5	305.4	306.7	305.4
40°	6326.5	5826.5	4199.6	2750.1	1775.9	917.5	346.1	282.0	288.2	291.9	293.1
42.5°	6962.0	6358.5	4521.0	2603.5	1501.3	596.1	280.8	269.7	264.8	270.9	273.4
45°	7473.1	6822.8	4824.0	2432.3	1179.8	352.2	272.2	250.0	241.4	243.8	247.5
47.5°	7882.0	7192.3	5006.3	2232.8	862.1	266.0	264.8	232.8	220.4	218.0	216.8
50°	8267.4	7508.8	5123.3	1991.4	549.3	256.2	245.1	213.1	198.3	195.8	195.8
52.5°	8529.8	7715.7	5162.7	1705.7	327.6	250.0	231.5	197.0	177.3	181.0	183.5
55°	8785.9	7925.1	5081.4	1333.8	251.2	234.0	216.8	177.3	161.3	176.1	181.0
57.5°	8907.8	7955.9	4897.9	927.4	243.8	211.8	195.8	158.9	146.6	155.2	155.2
60°	9006.4	7934.9	4641.7	587.5	237.7	197.0	178.6	144.1	129.3	124.4	120.7
62.5°	8941.1	7851.2	4126.9	383.0	220.4	179.8	162.6	133.0	112.1	98.5	97.3
65°	8801.9	7555.6	3294.4	301.7	204.4	171.2	147.8	119.5	98.5	82.5	81.3
67.5°	8391.8	6836.4	2131.8	250.0	195.8	165.0	136.7	110.8	87.4	71.4	70.2
70°	7409.0	5522.3	654.0	224.1	203.2	158.9	134.2	101.0	77.6	62.8	60.3
72.5°	5858.5	3689.7	242.6	186.0	174.9	152.7	130.5	91.1	66.5	53.0	50.5
75°	3773.5	1205.7	205.7	144.1	149.0	145.3	120.7	83.7	56.7	43.1	41.9
77.5°	1069.0	252.5	187.2	105.9	131.8	140.4	105.9	70.2	50.5	36.9	35.7
80°	224.1	179.8	171.2	75.1	98.5	91.1	71.4	54.2	48.0	32.0	32.0
82.5°	146.6	142.9	146.6	51.7	65.3	66.5	56.7	46.8	41.9	29.6	29.6
85°	103.5	130.5	70.2	36.9	30.8	28.3	33.3	40.6	36.9	24.6	24.6
87.5°	35.7	20.9	14.8	14.8	13.5	13.5	16.0	18.5	19.7	19.7	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)